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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/666,001		09/17/2003	Hiroyuki Tsuchinaga	16869G-087700US	6603	
20350	7590	04/25/2006		EXAM	EXAMINER	
		TOWNSEND AN	DILDINE JR, R STEPHEN			
TWO EMBA		RO CENTER		ART UNIT	PAPER NUMBER	
		CA 94111-3834		2133		

DATE MAILED: 04/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summan	10/666,001	TSUCHINAGA, HIROYUKI					
Office Action Summary	Examiner	Art Unit					
	R. Stephen Dildine	2133					
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (1.136(a). In no event, however, may a red will apply and will expire SIX (6) MONute, cause the application to become AE	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
	is action is non-final.						
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
_							
	Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) 5-9 is/are allowed. ☐ Claim(s) 1,2 and 4 is/are rejected. ☐ Claim(s) 3 is/are objected to						
·							
7)⊠ Claim(s) <u>3</u> is/are objected to.							
ordinitis) are subject to restriction and/	or election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examin	ner.						
10)⊠ The drawing(s) filed on <u>17 September 2003</u> is	s/are: a) accepted or b) ∑	☑ objected to by the Examiner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	, ,						
1.⊠ Certified copies of the priority documer	nts have been received.						
2. Certified copies of the priority documer		pplication No.					
3.☐ Copies of the certified copies of the price							
application from the International Burea	•	5					
* See the attached detailed Office action for a lis		received.					
Attachment(s)			-11				
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		s)/Mail Date nformal Patent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	6) Other:	The state of the s					

Drawings

Figures 2 and 7 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: at page 2, line 17 "patent reference 1" is unclear.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Tong (4,843,607) who teaches the combination recited in applicant's claims 1 and 2 as follows:

Carrying out an exclusive-addition process of remainder data obtained as a result of dividing said received data by a generating function ("check symbols generated in a conventional Reed-Solomon re-encoder", column 2, lines 36-38),

Including an error event virtually generated in said received data by a generating function in order to find remainder data generated after a tentative-correction process for said virtually generated error event ("are transformed by a matrix implementing a given permutation of the check symbol locations to produce a corresponding set of virtual check symbols", column 2, lines 38-41)

Correcting said error event of said tentative-correction process and an error event generated at a second location in said received data when said error event generated at said second location can be detected on the basis of said remainder data generated after said tentative-correction process ("These, of course, are the errors to be added back into the corresponding locations in the received codeword to obtain correction", column 2, lines 45-47).

Tong further shows the combination of applicant's claim 4 as follows:

An error correction circuit comprising: a 1-event-error correction circuit for correcting a 1-event error of post-demodulation reproduced data ("Accordingly, error trapping guarantees the correction of only a single erroneous symbol in all cases", column 4, lines 26-28); and a 2-event-error correction circuit for receiving an output of said 1-event-error correction circuit and correcting a 2-event error, which cannot be corrected by said 1-event-error correction circuit ("In order to trap any pattern of two errors (i.e., two symbols of the received codeword contain errors), the virtual check locations are permuted in accordance with a mathematical object known as the cyclic difference set", column 2, lines 14-17).

Allowable Subject Matter

Claims 5-9 are allowed.

Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to R. Stephen Dildine whose telephone number is (571) 272-3820. The examiner can normally be reached on M - F 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2133

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R. Stephen Dildine Primary Examiner Art Unit 2133

R. Stephen Dildine